(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property **Organization**

International Bureau



(43) International Publication Date 7 October 2004 (07.10.2004)

PCT

(10) International Publication Number WO 2004/084837 A2

(51) International Patent Classification7:

A61K

(21) International Application Number:

PCT/US2004/008901

(22) International Filing Date: 24 March 2004 (24.03.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/457,137

24 March 2003 (24.03.2003)

(71) Applicant (for all designated States except US): MERCIA PHARMA LLC [US/US]; 111 Brewster Road, Scardale, NY 10583 (US).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): DRIVAS, Dimitrios, T. [US/US]; 111 Brewster Road, Scarsdale, NY 10583 (US). BLACKBURN, Peter [GB/US]; 426 West 44th Street, New York, NY 10036 (US).
- (74) Agent: DRIVAS, Dimitrio, T.; 111 Brewster Rpad, Scardale, NY 10583 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN. CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

Published:

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHODS AND COMPOSITIONS FOR TREATING AND PREVENTING INFLAMMATORY CONDITIONS

(57) Abstract: Methods of treating eosinophilia by down regulating eotaxin and at least one other Th-2 related cytokine are dislosed as are multivalent immunogenic compositions that generate an active immune response in a subjet comprising autoantibodies to eotaxin-1, eotaxin-2, IL-4, IL-5, IL-9, and IL-13 and treatment methods using such compositions.